

CLEAN VERSION OF REPLACEMENT CLAIMS

~~110~~

39

A system according to claim ~~37~~, wherein said accelerometer is mounted in said sensor device such that said axes form an angle of substantially 45 degrees with a longitudinal axis of said arm when said sensor device is worn on said arm.

B1

95. A sensor device adapted to be placed in contact with an individual's upper arm, comprising:

at least one of an accelerometer adapted to generate data indicative of activity, a GSR sensor adapted to generate data indicative of galvanic skin response and a heat flux sensor adapted to generate data indicative of heat flow;

a processor coupled to said at least one of an accelerometer, a GSR sensor and a heat flux sensor, said processor being adapted to generate derived data from at least a portion of at least one of said data indicative of activity, galvanic skin response and heat flow;

means for inputting and outputting data from said sensor device;

a computer housing for containing said processor; and

a flexible wing body having first and second wings, said first and second wings being adapted to wrap around a portion of said upper arm.

B2

~~118~~

47

A sensor device according to claim ~~95~~, wherein said derived data comprises at least one of calories burned, sleep onset and wake, stress level and relaxation level.

B3

LOD

B

B3  
CONT. 99. A sensor device according to claim 95, wherein said derived data comprises calories burned and is based on at least one of said data indicative of activity and said data indicative of heart flow.

B4 101. A sensor device according to claim 95, further comprising means for providing at least one of tactile, audible and visual information to said individual.

B5 103. A sensor device according to claim 95, further comprising at least one of a vibrating motor, a ringer and one or more LEDs for providing information to said individual.

B6 106. A sensor device according to claim 103, wherein said information comprises at least one of a remaining memory capacity and a remaining battery level and is provided by said LEDs.

B7 108. A sensor device according to claim 101, wherein said information comprises at least one of a remaining memory capacity and a remaining battery level.

B8 121. A sensor device according to claim 95, further comprising a wireless receiver for receiving data from a wireless device worn by or located near said individual, wherein said wireless device comprises a heart rate monitor, said data received from said wireless device comprises data indicative of heart rate of said individual, and said derived data is also generated from said data indicative of heart rate.

**OTHER AMENDMENTS**

**In the claims:**

Please cancel claims 97, 105, and 107 without prejudice or disclaimer.

**In the Abstract:**

Please delete the current abstract and replace it with the following:

B9  
A system for detecting, monitoring and reporting physiological information includes a sensor device adapted to be worn on the upper arm that includes at least one of an accelerometer, a GSR sensor and a heat flux sensor and generates data indicative of at least one of activity, galvanic skin response and heat flow. The sensor device may also generate derived data from at least a portion of the data indicative of at least one of activity, galvanic skin response and heat flow. The system includes a central monitoring unit that generates analytical status data from at least one of the data indicative of at least one of activity, galvanic skin response and heat flow, the derived data, and previously generated analytical status data, a means for establishing electronic communication between the sensor device and the central monitoring unit, and a means for transmitting data to a recipient.

**REMARKS**

Reconsideration of the application in view of the following remarks is respectfully requested.